BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work :-Annual Maintenance and repairs of street lights in ward no 06 Package Y -06 of Yelahanka Zone.

Name of Contractror of nature of Agency:-Sri Pradeep kumar S.N. Pro of M/s Ganga Enterprises

Job Code No:-006-22-000007

Ref no and Date of commencement of work:-:- EE/Ele/YZ//WO/000006 /22-23 Date:01/04/2022

Aggrement No & date:-

Measurement Book No: 2607/23-24 **Page No:** 260641 to 260646

Bill NO :- 14th RA Bill **Bill Period : 01-01-2024 to 31-01-2024 (for 1 months)**

Sl. No.		Unit	Period in Months	Present Measurements		
				Qty	Tender Full Rate	Cost
1	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 36/40 W fluorescent tube light street lighting systems.	Each	1	79.00	34.16	2698.64
2	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 125 W HPMV light Park lighting systems.	Each	1	45.00	54.16	2437.20
3	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250W HPSV street light lighting systems.	Each	1	4805.00	81.00	389205.00
4	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents 400 watts HPSV street light/High Mast lighting systems.	Each	1	120.00	91.66	10999.20
5	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 24 watt LED park lighting systems.	Each	1	32.00	66.66	2133.12

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6	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 65 watt LED street light lighting systems.		Each	1	727.00	91.66	66636.82
7	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 90 watt LED street light lighting systems.		Each	1	19.00	108.33	2058.27
8	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 110/120 watt LED streetlight lighting system		Each	1	0.00	125.00	0.00
9	Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 150 watt LED street light /High mast lighting system		Each	1	0.00	150.00	0.00
10	Painting of existing Street lighting pole after scraping the oid paint and painted with suitable colour enamel/silver paint including copingflooting of the polec) Up to 5 Mtrs Street light pole		Nos	-	45.00	415.00	18675.00
	Bhuvaneshwari Nagara Park	45 Nos					
11	Painting of existing Street lighting pole after scraping the oid paint and painted with suitable colour enamel/silver paint including copingflooting of the polec) 8 Mtr and above Street light pole		Nos	-	320.00	650.00	208000.00
	Address	**Nos**					
	Hegde Nagara to Police Quateres	15					
	Hegde Nagara Bridge	63					
	15th Cross Hegde Nagara to Shabari Nagara Road	38					

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	Hegdenagara Bridge to MCHS Layout Double road	26					
	Hegdenagara to Book factory road	30					
	Shobha City Apartment	17					
	Book factory Railway Gate to Thanisandra Circle	46					
	Thanisandra Circle to Nagavara	49					
	Carle	18					
	Rachenahalli Lake	17					
	Hegdenagara Traffic Police Station	7					
	Total	**326**					
12	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) 100Amps 25kA.		Each	-	0.00	3850.00	0.00
13	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets. 260mmx210mmx116mm		Each	-	0.00	1850.00	0.00
14	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm		Mtr	-	0.00	140.00	0.00
15	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm		Mtr	-	0.00	20.00	0.00
16	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps		Each	-	0.00	6200.00	0.00
17	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.		Each	-	0.00	2859.00	0.00
18	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 Amps SP		Each	-	0.00	623	0.00

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19	1.1 kV, LT Aerial Bunched Cable, confirming to IS-14255: 1995 XLPE insulation Parameter shall be as below 1. Hot Set Test: a) Elongation under Load: 50% (Max)b) ermanent Elongation After Cooloing: 3% (Max) 2.Thermal Aging in oven:a) Tensile Strength: 16 N/mm² (Min) b) Elongation: 375% (Min) 3. Water Absorption Test a) Water absorbed: 0.5 mg/cm² (Max) 4. Carbon Black Content shall be ranging from 2% to 3% 3x25 + 1x25 + 1x16 Sqmm Street light (Insulated		KM		0.00	125000.00	0.00
20	Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control)		KM		0.00	10500.00	0.00
	TOTAL Rs						**476168.25**
	Add GST 18 % = 12%+6% on item no 1-9				-0.12	57140.19	**419028.06**
					0.18	75425.05	**494453.11**
	Total Rs item no 10-20						**226675.00**
	Add GST 18 % on item no 10-18 and 20						**40801.50**
	TOTAL Rs						**761929.61**
	Fine imposed for non burning of street lights						**5000.00**
	As per street light agreement clause 2% will be						**9889.06**
	GRAND TOTAL						**747040.55**

CERTIFICATE

1.This is to certify that the work done is saticefactorily.

2.This is to certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು (ವಿದ್ಯುತ್)
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